

70-505 (C#) - TS: Microsoft .NET Framework 3.5, Windows Forms Application Development

Course Introduction

Course Introduction

3m

Chapter 01 - Windows Forms and Controls

Overview

Windows Forms

Demo - Windows Forms

Demo - Non-Rectangular Forms

Standard Controls

Discussion - Standard Controls

Control Layout

Demo - Managing Control Layout

Menus

Demo - Main Menu Class

Demo - Menu Strip Class

Demo - Context Menu Strip Class

Demo - Context Menu Class

Demo - Tool Strip Control Host Class

Demo - Creating Toolstrips

Form and Control Events

Discussion - Form and Control Events

Mouse Events

Keyboard Events

Demo - Mouse and Keyboard Events

Data-Bound Controls

Demo - Data-Bound Controls

DataGridView

Demo - DataGridView

Common Dialogs

Demo - Common Dialogs

Custom Dialogs

Demo - Custom Dialogs

SDI and MDI Applications

MDI Forms

Demo - MDI Applications and Forms

Forms Inheritance

Demo - Forms Inheritance

Chapter 01 - Review

2h 34m

Chapter 02 - ADO.NET

Overview

ADO.NET Architecture

Object Model

Two Alternatives

Isolation Levels

SqlConnection Object

SqlCommand Object

Connected Data Access

Connected Data Access - Code Example

Demo - ExecuteReader

2h 15m

Demo - ExecuteScalar
Demo - ExecuteNonQuery
Demo - ExecuteXmlReader
Demo - Stored Procedures
Transactions
Transaction Steps
Demo - Transactions
Disconnected Data Access
Fill Method
DataAdapter
Disconnected Data Access - Code Example
Demo - Disconnected Data Access
Table Relationships
Creation
Navigation
Demo - Relationships
CommandBuilder
Demo - CommandBuilder
DataView
Demo - DataView
BindingSource
Demo - BindingSource
LINQ
Demo - LINQ
Connection Pooling
Chapter 02 - Review

Chapter 03 - XML Data

1h 10m

Overview
XML Concepts
Additional XML Concepts
DataSet to XML
DataSet to XML Code
Demo - DataSet to XML
Transforming XML with XSLT - Concept
Transforming XML with XSLT - Code
Demo - Transforming XML with XSLT
LINQ to XML
Demo - LINQ to XML
XML IO - Reading
XML IO - Writing
Demo - XML IO
XPath
XPathNavigator
Demo - XPath Query
Demo - XPathNavigator Tree View
XML DOM
Demo - XML DOM
Chapter 03 - Review

Chapter 04 - Printing

38m

Overview
Print Components and Controls
PrintDocument
Demo - PrintDocument
PrintDialog

Demo - PrintDialog
PrintPreviewDialog
Demo - PrintPreviewDialog
PageSetupDialog
Demo - PageSetupDialog
PrintInBackgroundDelegate
Demo - PrintInBackgroundDelegate
Chapter 04 - Review

Chapter 05 - Usability

2h 59m

Overview
Graphic Output
Demo - Graphic Output
Globalization and Localization
Defining
Dates
Numerics
Comparing
Demo - Globalization and Localization
User Assistance Controls and Components
Demo - User Assistance Controls
Usability
Drag-and-drop
Clipboard
Demo - Drag-and-drop & Clipboard Operations
Persisting Application Settings
Demo - Persisting Application Settings
Custom Controls
Demo - Composite Custom Controls
Demo - Derived Custom Controls
Demo - Full Custom Controls
Interoperability
Demo - COM Interoperability Client
Demo - PInvoke
Chapter 05 - Review

Chapter 06 - Asynchronous Programming

1h 36m

Overview
Thread Class
Demo - Thread Class
Asynchronous Delegates
Demo - Asynchronous Delegates
Event-Based Asynchronous Pattern
Demo - Event-Based Asynchronous Pattern
BackgroundWorker Component
Demo - BackgroundWorker Component
Thread-Safety Issues
Demo - Thread-Safety Issues
Synchronization Objects
Demo - Synchronization Objects
ThreadPool Class
Demo - ThreadPool Class
User Interface Threads
Demo - User Interface Threads
Chapter 06 - Review

Chapter 07 - Custom Dialogs and Controls

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Overview

Modal Dialogs

Modal Dialog Properties

Modeless Dialog

Modeless Dialog Properties

Demo - Custom Dialogs

Composite Controls

Implementing a Composite Control

Demo - User Dialogs

Extended Controls

Creating and Using an Extended Control

Demo - Extended Controls

Custom Controls

Implementing and Using a Custom Control

Demo - Custom Controls

Chapter 07 - Review

Chapter 08 - Deployment

1h 8m

Overview

Deployment Options

Comparisons

Windows Installer

Windows Installer Options

Configuring the Setup Project

Demo - Windows Installer

ClickOnce Concepts

ClickOnce Publishing Wizard

ClickOnce Programming

Demo - ClickOnce

Chapter 08 - Review

Course Closure

Total Duration: 13h 16m